Do you have any reason to believe that

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I believe I -- the dot sign file is

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those copies would not be accurate?

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Page 77

Were you responsible for releasing

BusyBox 0.60.3.

documentation in connection with that code as

at

I created documentation with --

And do you know if documents that

that time, yes.

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we11?

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accurate copies of the indicated source code?

I presume that they are.

downloaded from this page would be true and

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	Erik And Software Freedom Conservan	Erik Andersen - 10/29/2010 Software Freedom Conservancy, Inc., et al. vs. Best Buy Co., Inc., et al.
		Page 76
Н	BY MS. ROBERG-PEREZ:	
2	Q. Mr. Andersen,	, directing your attention
က	to the link "BusyBox-0.60.3.tar.bz2," do you	0.3.tar.bz2," do you see
4	that there was a last-mo	last-modified date, April 27th,
2	2002?	
9	A. Yes, I see t	that.
7	Q. Do you have	an understanding of what
œ	the last-modified date means?	leans?
6	A. Yes.	
10	Q. What does th	What does that date mean?
11	A. That's the d	That's the date on which that file
12	was was was last c	last changed or modified, and
13	and, presumably, it corresponds to	esponds to the last time
14	anything in that file was changed.	s changed.
15	Q. And do you r	do you recognize let me back up
16	a bit.	
17	At one point in time,	in time, you were a
18	BusyBox maintainer, correct?	ect?
19	A. That is correct.	ect.
20	Q. And were you	And were you a maintainer on
21	April 27th, 2002?	
22	A. Yes, I was.	
23	Q. And were you	And were you responsible for releasing
24	BusyBox Version 0.60.3?	
25	A. I was respon	responsible for releasing

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Depo International, Inc. (763) 591-0535 or (800) 591-9722 admin@depointernational.com but I if it had changed, or something, 25

I -- I would have to check it and see

is downloadable from these links would not be true

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18

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and accurate copies of the documentation?

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I have no reason to know one way

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the other whether the -- that that's true or

22

accurate or not.

the documentation in connection with the code that

Do you have any reason to believe that

confirm that nobody's changed or modified it.

Okay.

contains cryptographic signature intended to

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Н	be reasonably be rendered.
7	Q. Okay.
က	Who is Dave Cinege, if you know?
4	A. He was a software developer who was
2	working on a project called the "Linux Router
9	Project."
7	Q. Does Mr. Cinege have any connection
∞	with BusyBox?
6	A. He had also just made use of the
10	BusyBox project at that time on initial releases
11	of the Linux Router Project, and he had made some
12	modifications to BusyBox.
13	Q. 0kay.
14	Directing your attention to the first
15	e-mail in this e-mail string, about a third of the
16	way down the page, September 20th, 1999, appears
17	to be from you to Bruce and Dave.
18	Do you see that?
19	A. Yes, I see that.
20	Q. And do you see that you've written:
21	"Hi, Bruce and Dave, I was wondering if you might
22	be interested in letting me maintain BusyBox?"
23	A. Yes, I see that.
24	Q. What does "Maintaining BusyBox" mean?
25	A. It is, essentially, a social

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89 Page receiving and integrating updates to a open source individual responsible for primary development as testified about receiving and integrating updates sometimes happens that other people will find the What does "Primary development" mean? And as a project maintainer, when you It means that one finds a particular What I believe I stated was that is integrating updates to the open-source project. make the project available on the Internet, it well as the individual responsible for -- for project fascinating and enjoys spending their Who -- who would those updates be Where do those updates come from? whatever their own individual needs might be. their free time, and whatnot, working on the You also mentioned receiving and to open source -- to an open-source project. received from -- I -- I apologize, you also As such, people may then choose project similarly interesting or useful for development and improvement of the project. construction which involves the principal part of the role of a project maintainer. ٠ Ä Ä project. 4 2 9 ω 6 10 7 12 14 19 15 16 18 20 22 25 11 17 21

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A. I might have been aware of it, because

Lineo, is it your testimony that you were not

aware of a BusyBox?

11 12

So, before you began working for

· 0

6 10

frame.

~ 8

familiarity with -- with Debian and the Debian

14 13

15

16 17

I was a Debian developer and I had some

boot floppies, which integrated BusyBox.

So, I may have been aware of it, but I

time frame developed an interest in enhancing and had not prior to the August-to-September-of-1999

> 18 19

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August date on which I was hired by Lineo, and the

September 20 date on which I wrote this e-mail.

So, sometime in that time.

4 2 state of embedded Linux, I apparently became aware

9

turned to the question of -- of improving the

Now, because my attention was now

of BusyBox and began working on it in that time

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Sometime after September 20th, 1999, φ I know that I exchanged a series Do you recall the date? did you become BusyBox maintainer? Yes, I did. I do not. improving BusyBox. Ä ٥.

20 22 23 24 24

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So, it would have incorporated those

changes, and I would anticipate it probably, you

13 14 15

know, had the -- the first glimmerings of -- of

changes that I myself was introducing.

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this version of BusyBox versus the last version

that Mr. Perens released?

7 က existent at that time. That would include patches

that came from the Linux router project. That

able to take from the various sources that were contain the patches and changes that I had been

I would anticipate that it would

Ä.

4 2 9 7 ω 6 10

would incorporate patches that came from the Linux boot floppies. It would incorporate some patches

that I had probably found that somebody or other

had decided to make some changes.

11 12

Erik Andersen - 10/29/2010 Software Freedom Conservancy, Inc., et al. vs. Best Buy Co., Inc., et al.	Page 92	e-mails with Bruce where he was certain that he	as going to get right on it, and he did not, and	eventually decided to cede that position to me.	Q. And do you recall when you stopped	maintaining BusyBox?	A. I do not recall the time frame	exactly.	I know that eventually my other	things, my other work, was such that I was not	ble to give it sufficient time and attention.	And just as Bruce was not able to give	t sufficient time and attention and passed the	project on, there came a point when my interests	nd my time were such that I passed the project		But I don't recall the exact date.	'm sure that I would have to look that up.	Q. And do you recall who you passed the	project to?	A. It was a developer named Rob Landley,	and he I believe he was in Austin, Texas at the	ine.	Q. Okay.	A. That's my recollection.	Q. 0kay.	
Š			2 was (3 event	4		9		σ.	9 thing) able	_	it		and	on.	"0	E, I	σ.		0		time.	m		10	
		Н	.,	(1)	4	Ŋ	9	7	∞	0,	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	

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At the time I was using a revision

Ä

I'd have to go back and double-check.

Ą.

19 20

Do you know if others contributed to

that version of the code?

16 17 18 I'm certain that the -- the logs that I have back

then probably would enumerate them, but I --

don't recall specifically.

21 22

When you refer to the logs you had

٥.

back then, what are you referring to?

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	Page 235
Н	software. That was a a revision control system
2	called, "CVS," Charlie, Victor, Sam, or I don't
က	know, whatever you use for the letter "S."
4	But that, I think it I believe it
2	stands for concurrent versioning system, but or
9	something to that effect.
7	It is a software utility that is
∞	intended to track and archive changes to to
6	things such as software.
10	Q. Do you still have that software or
11	files that you generated with that software?
12	A. The well, the the software
13	itself that was then stored was, obviously,
14	released as BusyBox 0.28.
15	And then in subsequent releases,
16	the the software archive that occurred at that
17	time, the archive itself was some years later
18	converted to a different revision control system
19	called "Subversion," and Subversion maintains all
20	of the archives and logs of the changes that were
21	made to the software going back to the earliest
22	commits.
23	Q. So, if we are to look at the
24	Subversion files, we would see all of your earlier
25	logs from CVS.

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	Page 236
Н	
2	Q. Do you know if those Subversion
ო	files and I apologize, I don't know if the
4	correct term is files or logs because I'm not
Ŋ	familiar with the software, but if that those
9	Subversion files or logs have been turned over to
7	your counsel?
∞	A. I would assume that they were, and
6	that they are publicly accessible on BusyBox.net,
10	and any interested parties are welcome to peruse
11	them at will.
12	They go back, presumably, to the
13	beginning of my efforts at changing the software,
14	and they, over time, developed greater utility as
15	I began to use the revision control system more
16	effectively and made better commentary on the
17	changes that were made.
18	Q. Let me show you a document to see
19	if if this is what we've been talking about or
20	not.
21	MS. MARVIN: I'm handing the court
22	reporter a document to be marked Exhibit 31.
23	(Exhibit Andersen 31, a change log,
24	was marked for identification at this time.)
25	A. Okay.

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fact, it would be the process of incorporating

that change into the software.

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It is then annotated with whatever

comments may have been made at that time.

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Okay.

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A typical example, a patch would be

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received. It would be from Bill at, you know,

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	Software Free	Erik Andersen - 10/29/2010 Software Freedom Conservancy, Inc., et al. vs. Best Buy Co., Inc., et al.
		Page 237
Н	٥.	Okay.
2	Г	Is this a Subversion log of the type
က	we've been di	discussing?
4	Α.	No, it is not.
2	٥.	Okay.
9	Α.	This is a separate document that I
7	included in t	in the source code releases, which I
œ	believe I tit	titled, "Change log," where I distilled
6	down some of	the more relevant and interesting
10	changes into	a a I guess a text document to
11	make it easie	easier for people to ascertain what the
12	more interesting	ting and substantive changes that
13	that went into	to particular releases.
14	٥.	So, just so I make sure I understand
15	correctly, is	s this a version a Subversion log
16	then more det	detailed than the change log?
17	Α.	A Subversion the Subversion logs,
18	or change log	logs, have a full history of every
19	software edit	edit that was made to the software.
20	Г	If someone sent me a patch, and one
21	and that patc	patch was deemed acceptable and included
22	into the soft	software, into BusyBox, there would have
23	been a change	change that would have occurred in the CVS,
24	and, later, S	later, Subversion revision control system,
25	that indicated	ed that particular change. And, in

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software, and we would annotate that change saying We would then type a command, such as, It might have been myself So, the Subversion log would contain But it would -- would it not always some e-mail address with a brief description of would then incorporate that change into the "CVS commit," and then the software file. perhaps, say, fix a crash in this utility. what the intended effect of the patch was, So, the Subversion -- sorry. the names of those who sent in patches? You say, "Often would." It often would, yes. (Cell phone rings.) THE WITNESS: Okay. Sometimes. this change was made. contain that? ò 8 Ä Ä 8 6 ω 10 12 13 14 11 15 16 17 18 19 20 21 22 25

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Н	who committed that change, and, so, it might not
7	have included some the name or e-mail address
က	of some other person.
4	Other times, as as the project
2	developed, I gave commit access to other
9	individuals, and, so, rather than them
7	specifically annotating that that they were the
∞	person, the logs themselves have that user name
6	incorporated within them, but it may not have been
10	explicitly annotated as such by the by the
11	committer.
12	Q. Do the logs also annotate I'm
13	sorry, did the logs also contain new code that was
14	written and added to BusyBox?
12	A. Well, any time new code was added to
16	BusyBox, no matter what its origin, it would have
17	been committed into the revision control system.
18	That is the mechanism by which it became a part of
19	BusyBox.
20	Q. Okay.
21	And it would it would, therefore,
22	be contained on the log the Subversion log as
23	Well?
24	A. Yes, any change that was made, it
25	would be within that.

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mS. MARVIN: Just before I proceed, mS. MARVIN: Just before I proceed, counsel, if the CVS and/or Subversion logs have not been produced, we would ask that they be produced, or that you direct us to the location of them, if they're on the much is busybox website. MS. MARVIN: Great. Thank you very much. I appreciate it. MS. MARVIN: Great. Thank you very much. I appreciate it. MS. MARVIN: So, let me ask a few clarifying questions just for the record, MS. MARVIN: Clarifying questions just for the record, MS. MARVIN: are generated automatically by the software when correctly that the CVS and Subversion logs are are generated automatically by the software when the change is made? A Yes. software maintainer, such as myself, would commit		Page 240
MS. MARVIN: Just before I pro Counsel, if the CVS and/or Subversio have not been produced, we would ask they be produced, or that you direct the location of them, if they're on BusyBox website. MR. RAVICHER: Yeah, they're on MS. MARVIN: Great. Thank you much. I appreciate it. MR. RAVICHER: Just off the re real quickly. (Discussion off the record.) MS. MARVIN: So, let me ask a clarifying questions just for the re too. By MS. MARVIN: Q. So, Mr. Andersen, do I underst correctly that the CVS and Subversion logs are generated automatically by the softwar the change is made? A. Yes. There are two aspects to it. Software maintainer, such as myself, would	Н	
Counsel, if the CVS and/or Subversice have not been produced, we would ask they be produced, or that you direct the location of them, if they're on BusyBox website. MR. RAVICHER: Yeah, they're on MS. MARVIN: Great. Thank you to MS. MARVIN: Great. Thank you much. I appreciate it. MR. RAVICHER: Just off the record.) MS. MARVIN: So, let me ask a clarifying questions just for the retoo. BY MS. MARVIN: Q. So, Mr. Andersen, do I underst correctly that the CVS and Subversion logs are generated automatically by the softwarthe change is made? A. Yes. There are two aspects to it. software maintainer, such as myself, would	2	MARVIN: Just before I
have not been produced, we would ask they be produced, or that you direct the location of them, if they're on BusyBox website. MR. RAVICHER: Yeah, they're on BusyBox website, and I'll send you t MS. MARVIN: Great. Thank you much. I appreciate it. MR. RAVICHER: Just off the re real quickly. (Discussion off the record.) MS. MARVIN: So, let me ask a clarifying questions just for the re too. BY MS. MARVIN: Q. So, Mr. Andersen, do I underst correctly that the CVS and Subversion logs are generated automatically by the softwar the change is made? A. Yes. There are two aspects to it. software maintainer, such as myself, would	ო	if the CVS and/or Subversion
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Q. So, Mr. Andersen, do I underst correctly that the CVS and Subversion logs are generated automatically by the softwar the change is made? A. Yes. There are two aspects to it. software maintainer, such as myself, would	18	BY MS. MARVIN:
correctly that the CVS and Subversion logs are generated automatically by the softwar the change is made? A. Yes. There are two aspects to it. software maintainer, such as myself, would	19	So, Mr. Andersen, do I
are generated automatically by the softwar the change is made? A. Yes. There are two aspects to it. software maintainer, such as myself, would	20	and Subversion logs are -
the change is made? A. Yes. There are two aspects to it. software maintainer, such as myself, would	21	generated automatically by the
A. Yes. There are two aspects to it. software maintainer, such as myself, would	22	change
There are two aspects to it. software maintainer, such as myself, would	23	
software maintainer, such as myself, would	24	are two aspects to it.
	25	maintainer, such as myself, would

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changes, and then distilling out some of the more

reviewing the editorial comments, some of the

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Н	a change by editing one line in a file, for
7	example, I might then commit that change.
က	I am also given an opportunity to
4	annotate that change, and I can then add whatever
2	explanatory comments I might choose, such as, this
9	change came from so and so, or this I I saw
7	this crashed when I did this, and, so, I'm adding
∞	this change in order to fix it, that type of
6	editorial content as well.
10	So, it can change the it contains
11	both the software modification and, potentially,
12	some degree of editorial comment upon the change
133	that was made.
14	Q. 0kay.
15	And to distinguish it from the change
16	log that we were looking at as Exhibit 31, do I
17	understand correctly that the change log is not
18	well, let me rephrase that.
19	Is the change log in Exhibit 31, for
20	example, automatically generated in any way, or is
21	all of the content in it written by the by
22	yourself or the current maintainer of it?
23	A. Yes, the change log itself would be
24	written explicitly by myself or the maintainer as
25	a commentary on the changes, sometimes by

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Depo International, Inc. (763) 591-0535 or (800) 591-9722 admin@depointernational.com interesting or pertinent ones that people might be And do you release the change log with printed this off the message board archives on the (Exhibit Andersen 32, a message posted reporter a document to be marked Exhibit 32. incorporated, yeah, within the software as a file body -- the BusyBox website that your counsel has busy body -- I'm sorry, the BusyBox, not the busy concerned with while deliberately omitting more directed -- that directed us to for the archive MS. MARVIN: I'm handing the court marked for identification at this time.) within the -- the .tar.gz, or later, .tar.bz2 Does this appear to be a message I will represent to you that we Yes, the change log was always by Erik Andersen on March 3, 2006, posted by yourself on March 3rd of 2006? obscure, less noteworthy changes. the soft -- the code release? Okay. Ä. Ä. δ. 8 messages file. 4 2 9 7 ω 6 10 19 25 11 12 13 14 15 16 20 22 17 21

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	Page 243
Н	A. It appears to be just that.
7	Q. 0kay.
က	I'd like to direct your attention to
4	the second paragraph from the bottom of the page
2	that begins, "I personally wrote."
9	The second sentence of that paragraph
7	reads: "Later, as others began contributing to
∞	utility.c, attribution for all such changes were
6	not very carefully tracked." Newer period.
10	"Newer stuff, of course, has been properly marked
11	an SVN as to who wrote or contributed it."
12	We were just talking about the CVS and
13	Subversion logs. And here you say that
14	attribution for all such changes was not carefully
15	tracked, and I believe you testified that sometime
16	things came in, or people changed things and if
17	I'm misquoting your testimony, please, correct
18	me that were not marked in the code.
19	Is this does this does this
20	line, "That attribution for all such changes was
21	not very carefully tracked," does that go to what
22	you were speaking of earlier with respect to the
23	CVS Subversion logs?
24	A. To a certain extent, yes, it does
25	refer to that.

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Thank you, that -- that clarifies this change, or suggested a change, but it has not been there is a crash, we need to change this one line. And, so, when I speak here, I am more annotated as such in the header of, in this case, to null, I might have created a Subversion check So, it might be possible to find and So, if Bob sent me a one-line change saying, there is a crash here. We must change 0 At some point in time, did it become in that said, Bob sent this, noted that -- that typically they would have been annotated at the word, "SVN" together, that is referring to the specifically stating that not that it would be time of check in, but they were not explicitly explicitly annotated in the header of the file that Bob now has some -- some nominal level of And, note, when it's -- we see the recover the fact that Bob has now made a -- a impossible to determine all changes, because your practice to annotate in the header of authorship now in the -- in this file. Subversion revision control system. the utility.C file. ٥. δ. Ä for us. က 4 2 9 ω 6 10 7 17 14 15 16 19 20 25 12 17 22 21

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construct and a -- a self-imposed job description,

I -- obviously, this is a social

Ą.

and one which I took upon myself and accepted.

17

12

those patches for whether they were well written,

large, whether they were properly licensed for

inclusion in the project.

17

I would also collaborate with the

other developers in order to ensure smooth

19

20

21

functioning of the project.

whether they were pertinent to the project at

accept patches from contributors. I would vet

13 14 15 16

I would write software. I would

But my question to you is: What were

your specific roles and responsibilities as the

maintainer of BusyBox?

counsel asked before generally what the rule of

4 2 9 7 ω 6 10

maintainer is.

What were -- I think other defense

bit.

7 က

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I'm just going to backtrack a little

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\vdash	file who contributed that that file?	
2	A. It is it was typically the case	
က	that when you had an an entire file	
4	contributed, that we would then annotate at the	
2	top of the file the name of the individual	
9	responsible for that file.	
	It was, however, not the practice to	
œ	then modify and additional header attributions	
6	to other individuals for that file unless the	
10	change constituted a a substantial rework of	
11	the file such that the majority of the authorship	
12	now resided with some other individual.	
13	Q. And that was your practice was that	
14	your practice the throughout the time that you	
15	were maintainer at BusyBox?	
16	A. Yes, that was the practice.	
17	Q. Okay.	
18	And when you refer, in the next	
19	paragraph: "So while in theory, it may be	
20	possible, after an extensive search through all my	
21	ancient e-mail, to determine the exact set of	
22	authors and patch submitters for each line of code	
23	presently in LIBBB, and contact each one of them	
24	and get a written GPL" that's an arrow "LGPL	
25	transition approval, in practice, this is simply	

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Further, I provided additional

25

differing opinions as to what should and should

22

not occur, and, thereby, I -- I exercised

editorial control of the content.

conflict amongst different developers with

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the functionality of that feature set for problems

4 2 9

the -- the main core feature set while improving

release that -- that maintains substantially

7 က

the intent of a stable release, is to make

that have been discovered since previous release.

So, I would anticipate that there were

releases, and the efforts were made to ameliorate

ω 6

7

those problems.

10

11 12

or any

I don't recall if any effort

substantive changes other than that snuck in or

not. I have to --

mean -- do you mean new code being added to it?

14

13

And by "Substantive changes," you

capabilities that were not included, and those

New code, new functionality,

Ä

15 16 17 18

problems that were found in those previous 0.60

Page 274 Software Freedom Conservancy, Inc., et al. vs. Best Buy Co., Inc., et al. I would imagine that if I was to refer change that it -- I'm afraid the time has been too provide a summary of some of the more interesting second sentence, says: "This is primarily a bug Do you see the -- on Exhibit 34, the Does that reflect -- I'm sorry, does to the -- to the change log, I might be able to comprehensive list of every change, but off the I would anticipate a perusal of the And Exhibit 34 is a post by you on That's what it appears to be, yes. top of my head, I can't recall any particular that refresh your recollection as to what the Do you know what changed between I'm sure that the changes, the code between Version 0.60.1 and 0.60.3? Subversion logs would, of course, provide a Yes, I see that it says that. BusyBox message board of April 27, 2002? fix release for the stable series"? long for me to enumerate those. changes were in this version? Do you see that? and salient points. April 27, 2002. ٥. Ä. ٥. ò ò Ä. Ą. 4 7 9 7 8 6 က 10 12 13 14 15 17 19 19 11 20 21 22 24

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without a -- a careful review of -- of the source

code.

20 21 22 23

couldn't say whether they did or did not occur

sort of things do occasionally creep in. I

MS. MARVIN: I ask the court reporter

to mark this document as Exhibit 36

(Exhibit Andersen 36, the change log

file from the BusyBox 0.60.3 release, was

24 25

marked for identification at this time.)

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Н	A. Okay. I briefly reviewed this.
7	Q. I will represent to you that we
ო	printed this out of the 0.60.3 version of the
4	BusyBox code.
2	Does this appear to be the change log?
9	A. This does appear to be the change log
7	file from the 0.60.3 release.
∞	Q. And from this change log, are you able
6	to tell if any new code was added to .0.60.3 from
10	.0.60.1?
11	A. Having reviewed this, it is
12	immediately apparent that both myself and others
13	added substantive new changes and new code.
14	When I mentioned, as the first item,
15	for example, a new time applet, that is a
16	MS. MARVIN: A-P-L-E-T.
17	A that is a you know, right from
18	the first line, we already see brand new code
19	being added.
20	When we see additional changes, such
21	as adding, you know, con equals no error support,
22	2DE 2DD, that that's a clear another case of
23	brand new, spiffy functionality that is being
24	added.
25	As I review this, I see a number of

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